

Practical-3

AIM1: Four friends are playing cards. One person has to assume whether the opponent is giving correct judgment or not?

Code:

```
import random

suits = ("Clubs", "Diamonds", "Hearts", "Spades")

ranks = ("Ace", "2", "3", "4", "5", "6", "7", "8", "9", "10", "Jack", "Queen", "King")

rand_rank = random.choice(ranks)

rand_suit = random.choice(suits)

print("The random card picked is the %s of %s" % (rand_rank, rand_suit))

opponent_guess = input("What card do you think it is? ")

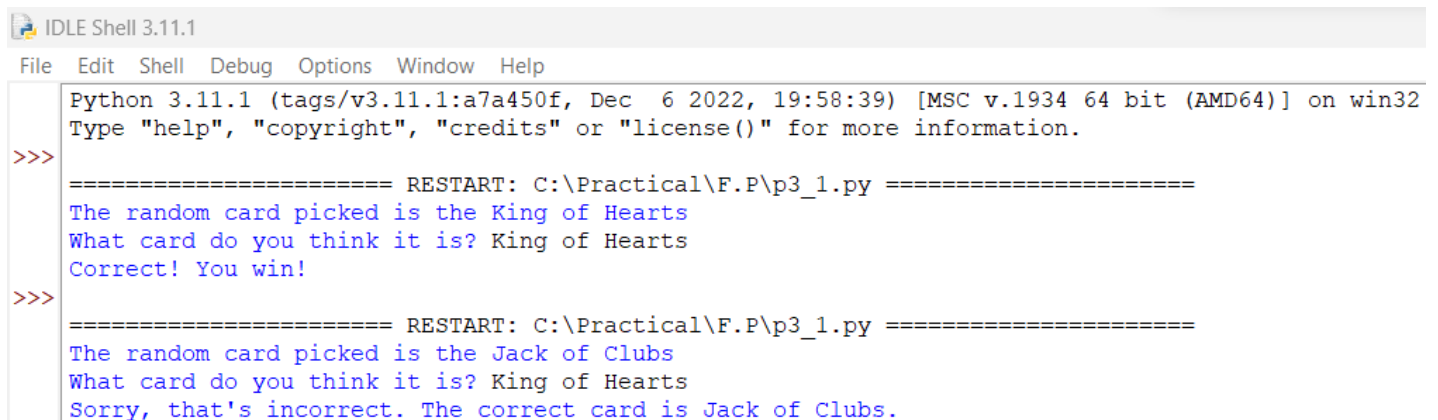
if opponent_guess == (rand_rank + " of " + rand_suit):

    print("Correct! You win!")

else:

    print("Sorry, that's incorrect. The correct card is %s of %s." % (rand_rank, rand_suit))
```

Output:



```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Practical\F.P\p3_1.py =====
The random card picked is the King of Hearts
What card do you think it is? King of Hearts
Correct! You win!
>>>
===== RESTART: C:\Practical\F.P\p3_1.py =====
The random card picked is the Jack of Clubs
What card do you think it is? King of Hearts
Sorry, that's incorrect. The correct card is Jack of Clubs.
```

AIM2: An astrologer is interested to do analysis for the calculations w.r.t zodiac signs. The zodiac sign depends upon the month, day and date on which any person is born.

Code:

```
import datetime

year = int(input("Enter Year:"))

days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]

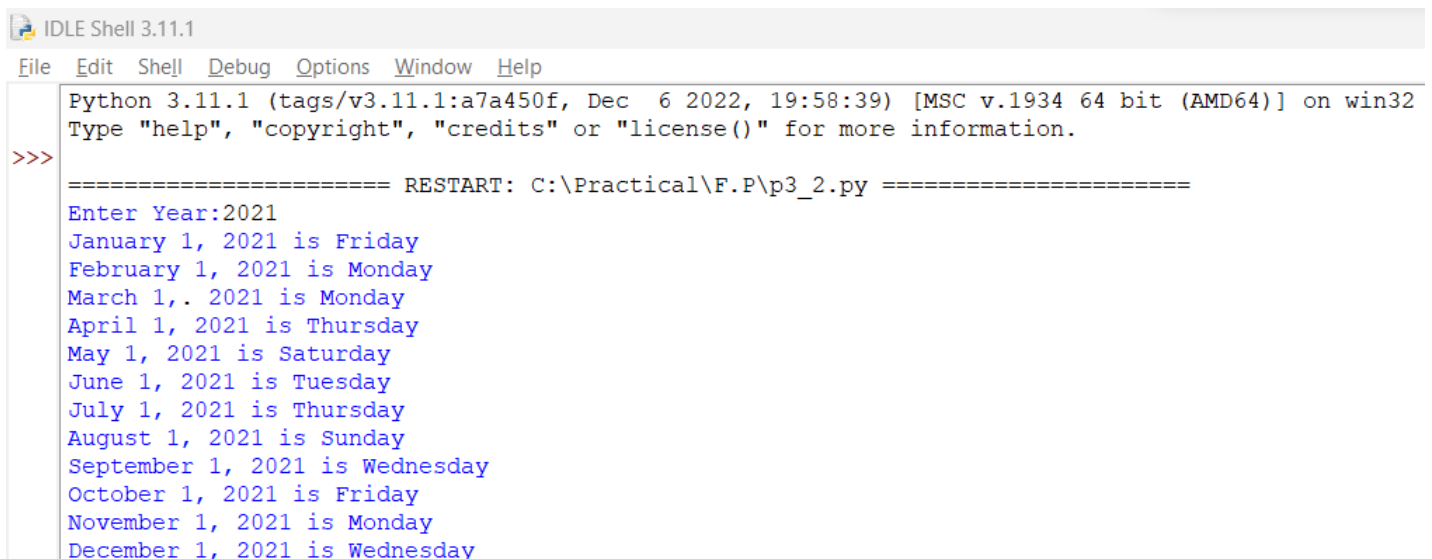
for i in range(1,13):

    x_date = datetime.date(year, i, 1)

    no = x_date.weekday()

    print(x_date.strftime("%B"), "1,", year, "is", days[no])
```

Output:



```
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>>>
===== RESTART: C:\Practical\F.P\p3_2.py =====
Enter Year:2021
January 1, 2021 is Friday
February 1, 2021 is Monday
March 1, 2021 is Monday
April 1, 2021 is Thursday
May 1, 2021 is Saturday
June 1, 2021 is Tuesday
July 1, 2021 is Thursday
August 1, 2021 is Sunday
September 1, 2021 is Wednesday
October 1, 2021 is Friday
November 1, 2021 is Monday
December 1, 2021 is Wednesday
```

AIM3: A teaching assistance is asked to prepare program to generate a quiz corresponding to faculties requirement.

Code:

```
import time

que = {"75+25=_?": 100, "100-_=50?": 50, "50/_=25?": 2}

total = 0

print("Lets Start The Quiz!!")

start_time = time.time()

for _ in que:
```

```

print('Your Question is:',_)

ans = int(input("Enter you answer:"))

if(ans == que[_]):

    total +=1

    print("Correct Answer")

else:

    print("Wrong, The correct answer is",que[_])

end_time = time.time()

time_spent = end_time - start_time

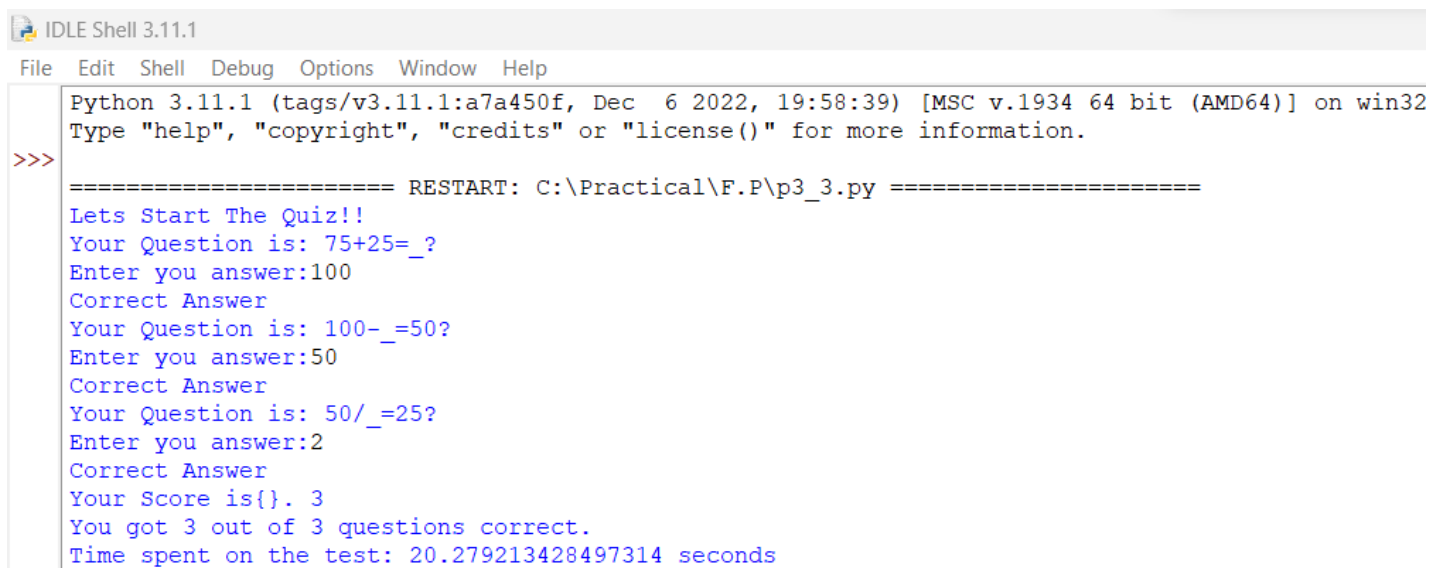
print('Your Score is{ }.'.format(total))

print('You got { } out of { } questions correct.'.format(total, len(que)))

print('Time spent on the test: { } seconds'.format(time_spent))

```

Output:



```

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File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
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>>>
===== RESTART: C:\Practical\F.P\p3_3.py =====
Lets Start The Quiz!!
Your Question is: 75+25=?
Enter you answer:100
Correct Answer
Your Question is: 100-_=50?
Enter you answer:50
Correct Answer
Your Question is: 50/_=25?
Enter you answer:2
Correct Answer
Your Score is{ }. 3
You got 3 out of 3 questions correct.
Time spent on the test: 20.279213428497314 seconds

```